

BELLCOMM. INC.

1100 Seventeenth Street, N.W. Washington, D. C. 20036

SUBJECT: Eleventh Meeting of the EVA Task Force at MSC, October 11, 1967 and Discussions with Crew Systems Division on EVA Development. Case 103.

DATE: November 9, 1967

FROM: A. N. Chambers

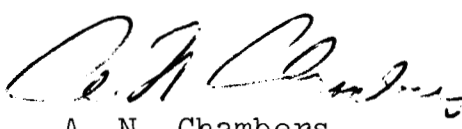
MEMORANDUM FOR FILE

1. The subject meeting will be covered in a trip report by W. Hodges. However, several points both with respect to this meeting and subsequent discussions with personnel in the Crew Systems Division should be made.

2. The EVA Task Force had proposed that the demonstration of CM-LM transfer be included in two orbital missions. However, apparently due to problems associated with long engine shutdown, the second transfer demonstration has been deleted (see Hodges memorandum). This raises serious questions about what happens if the EVA transfer is not successful on the first attempt. Experience with the Gemini flights has demonstrated that, based on what was learned in preceding EVA exercises, it was necessary to introduce many changes in EVA procedures in order to achieve successful performance in subsequent flights. Since the CM-LM EVA transfer is essential to the successful execution of the lunar landing mission, it would appear to be desirable to allow more than one opportunity to demonstrate this capability.

3. Subsequent discussions with L. Bell, Crew Systems Division, revealed that they have prepared a plan for systematic research and development of EVA capabilities ("Guidelines for EVA Development"). This systematic and integrated effort has many advantages over the present independent efforts in this direction. It is suggested that RB and MM review this document. It might be noted that this has much in common with the integrated approach to the development of human standards which is currently underway under the guidance of MM, and provides for the orderly development of a portion of these standards (i.e., "performance capabilities and limitations of man and equipment" for EVA operations).

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Attachment

"Guidelines for EVA Development," preliminary copy received from L. Bell, MSC, prepared by Crew Systems Division, April 14, 1967.

(NASA-CR-90266) ELEVENTH MEETING OF THE EVA TASK FORCE AT MSC, OCTOBER 11, 1967 AND DISCUSSIONS WITH CREW SYSTEMS DIVISION ON EVA DEVELOPMENT (Bellcomm, Inc.) 1 P

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